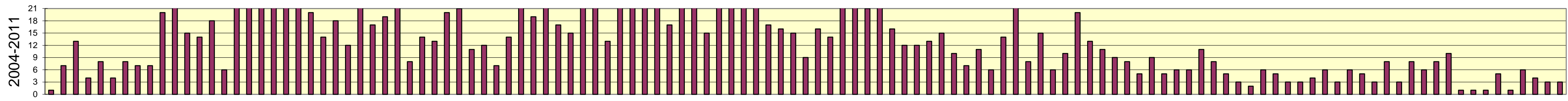


Seasonal Fire Activity Timelines for PSA NW09 - Large Fire = 100+ acres

[illegible]

Large Fires = 27

Large Fires = 27

NW09 – Northeast Washington

Season ending date estimates for Northeast Washington utilized the Predictive Services 7-day Significant Fire Potential Product. Given that the product determines the probability of a significant fire occurring, based on historical dryness levels and historic fire occurrence, the analysis results assume end of season when the product observed "green" (<1% probability of a significant fire event) for three or more consecutive days, and where periods of green were never separated by more than a single yellow and or brown day (3 to 7% probability of a significant event).

Large fire definition per NWCC predictive services for PSA NW09 is 100 acres or more. The earliest large fire occurred July 1, 2005 and the latest large fire occurred October 14, 2008.

A TERM file was generated using FireFamily Plus v. 4.1. The season was set **May 15 to October 15** for the years **1994-2012** using the same rationale as above produced these results:

50% of the seasons end on or before September 18

50% of the seasons end on or before September 18

75% of the seasons end on or before September 29

90% of the seasons end on or before October 7

99% of the seasons end on or before October 19

```

FireFamily Plus Term Report

Station: SIG - E2
Term Name: WN09
Season Start Day: 5/15
Data Years: 1998 - 2012
Alpha: 8.417885
Beta: 0.007643
R-Squared: 0.977814

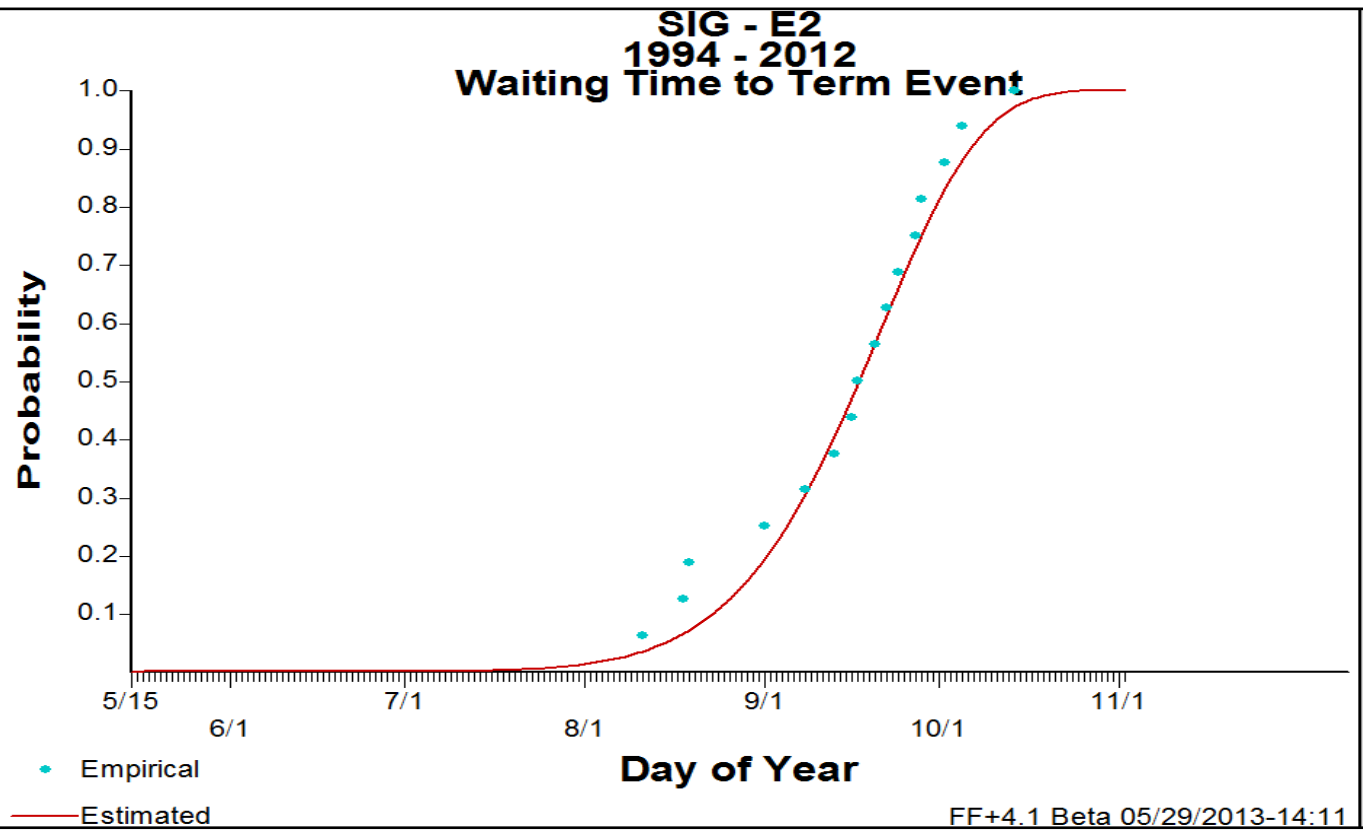
Comment:

Term Dates
Year      Day      #Days      Comment
1994      9/28      136
1995      9/28      136
1999      9/24      132
2000      8/18      96
2001      9/20      128
2002      9/16      124
2003      10/5      143
2004      8/17      95
2005      8/11      88
2006      9/13      121
2007      9/17      125
2008      9/11      130
2009      10/2      140
2010      9/1      109
2011      9/27      135
2012      10/13     152

Key Probabilities
Probability      Date
0.25      September 05
0.50      September 18
0.75      September 29
0.90      October 07
0.99      October 19

FF4.1 Beta 05/29/2013-14:11

```



PSA NW09 (E2)

This area represents the northeast Washington Mountains (Colville country). . PSA fuel moistures are determined by the average of the Key RAWS in the zone.

Key RAWS: Owl Mountain, Deer Mountain, Kettle Falls, Gold Mountain

Each RAWs receives equal weighting for NFDRS Index calculations.

Used to determine DL: 100-HR FM

“Large Fire Day” = A day with an occurrence of at least one 100+ acre fire

“F100 threshold values used for DL determination
Based on June-September data (2000-2011)

DL	F100 Threshold	% of all fire season days	% of all large fire days	Conditional Probability of a large fire
Green (moist)	≥ 11	40%	7%	1%
Yellow (dry)	7 – 10	46%	55%	3%
Brown (very dry)	≤ 6	14%	38%	7%

* Conditional Probability: Assumes at least 1 ignition

Specifics for PSA NW09

Burn Environment – Between the years 2004-2011, 27 large fires occurred; about half of these fires became large even under benign or normal conditions. Wind and ERC are the best indicators that correlate with large fire activity.

Lightning episodes that produce large fires occur on average 1-2 times per year.

